

**PROGRESS REPORT NO. 4**Dayco Corporation/L.E. Carpenter Superfund Site  
Borough of Wharton, Morris County, New Jersey

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**Date:** February 19, 2010

**To:** Ms. Patricia Simmons-Pierre (USEPA RPM)

**cc:** Ms. Frances M. Zizila (USEPA Site Attorney)  
Mr. Glenn Savary (NJDEP Case Manager)  
Mr. Ernie Schaub (LEC Project Manager)  
Mr. Richard Hahn (LEC Assistant Secretary)

**From:** Nick Clevett (RMT Project Coordinator)

**Site ID:** NJD002168748

**Subject:** Dayco Corporation/L.E. Carpenter Superfund Site  
Site Progress Report No. 4

This progress report is submitted in compliance with Section XV (Para. 61) of the Unilateral Administrative Order (UAO) dated August 6, 2009. This progress report covers the period between January 15, 2010 and February 19, 2010. The updated UAO/SOW Compliance Tracking Table and Master Project Schedule are attached.

1. Actions taken to comply with the UAO during this period. The following actions were completed:
  - Remedial Action, Pre Final Inspection (UAO Para. 46, SOW Section V.A.): As outlined in the attached UAO/SOW Compliance Tracking Table (Item 18a), and based on the attached Project Schedule (project completion estimated by March 12, 2010), RMT is prepared to accompany USEPA on a pre-final inspection of the MW19HS1 soil remediation project.
  - Pre-Final and Final Inspections, Soil Remedial Action Report, Notice of Construction Completion (Ref. SOW Section V.A.): As outlined on the attached UAO/SOW Compliance Tracking Table (Item 19a), and as shown by the attached post excavation soil sample result table, all soil above applicable NJ soil remediation standards has been excavated from the MW19HS1 project area as defined by the RA Work Plan Addendum. More comprehensive documentation regarding attainment of Performance Standards will be provided in the RA Report Addendum for the MW19HS1 Soil Remediation proposed for submittal to USEPA for review within 45-days following USEPA's determination that the MW19HS1 soil remedy is complete (Ref. SOW Section V.E.).
  - Received USEPA/NJDEP comments on the RA Work Plan Addendum on December 21, 2009. RMT responded via email to regulatory comments regarding the MW-30 area on February 1, 2010. USEPA confirmed receipt of the comment response in their email dated February 3, 2010. Conversation with USEPA on February 18, 2010 suggested approval of the February 1, 2010 response to comment document was imminent.

**PROGRESS REPORT NO. 4**

Dayco Corporation/L.E. Carpenter Superfund Site  
Borough of Wharton, Morris County, New Jersey

- Completed a draft NJDEP Division of Land Use Regulation (DLUR) Flood Hazard Area (FHA) permit application for installation of “structures” in the site defined FHA to facilitate the bioremediation pilot test near the MW-30 well cluster. This application will be submitted to NJDEP DLUR following USEPA approval of the revised MW-30 scope of work outlined in the February 1, 2010 response to comment letter.
  - Performed the MW19HS1 Soil Remediation including 1) site set up, security, health & safety, equipment and material lay down and logistics etc, 2) erosion control installation, inspection and maintenance, 3) Bldg 9 slab and foundation wall removal, 4) Bldg 9 sub slab fill material removal, 5) soil excavation and confirmatory sampling, 6) stockpile management, and 7) initial backfilling.
  - Maintained communication with the USEPA oversight contact(s) for the MW19HS1 Soil Remediation (Michael Mercado & Steven Wall). USEPA on site February 1<sup>st</sup> and 4<sup>th</sup> to split post excavation soil samples.
  - Submitted the 4Q 2009 Monitoring Report on February 8, 2010.
  - Initiated the 1Q 2010 site monitoring event on February 12, 2010.
2. Results of sampling, tests and all other data received and not previously submitted to EPA.
- All MW19HS1 post excavation soil sample results from sampling activities conducted on February 1<sup>st</sup>, 4<sup>th</sup>, and 8<sup>th</sup> are presented in the attached Table. All results are below applicable NJ soil standards.
  - Asbestos containing pipe analytical laboratory report attached (35% ACM) and process waste (Ref. Bullet 4). ACM and process waste discovered beneath Bldg 9 slab (Photographs attached).
3. All work planned for the next 12 months is as follows:
- Complete the MW19HS1 soil remediation (i.e., backfilling, waste management, surveying, and final grade), and document the action in an RA Report Addendum.
  - Submit the FHA permit and fees from NJDEP DLUR for installation of “structures” in the site defined FHA.
  - Complete the MW-30 area remedial investigation (RI) and document the investigation in a RD Report Addendum No. 3.
  - Complete the MW-30 bioremediation pilot study.
  - Revise and submit a final RA Work Plan Addendum.
  - Revise and resubmit the QAPP.
  - Prepare and submit a Community Involvement Plan (CIP).
  - Prepare and submit progress reports.

**PROGRESS REPORT NO. 4**

Dayco Corporation/L.E. Carpenter Superfund Site  
Borough of Wharton, Morris County, New Jersey

- Perform the 2010 quarterly monitoring and reporting events.
- 4. Problems encountered and any anticipated problems or delays and solutions to address actual or anticipated delays.
  - Soil Excavation Oversight for MW19HS1 area was estimated to take 23 field days. Field activities began on January 11, 2010; however, certain events caused this effort to extend to an estimated 50 days (through March 20, 2010). Delay in the field while implementing the MW19HS1 soil remediation resulted from the following:
    1. Delayed issuance of the Soil Erosion and Sediment Control Plan certification from Morris County Soil Conservation District.
    2. Concrete and rebar removal, on-site crushing and subslab fill material excavation.
    3. Weather-related delays.
    4. Management of asbestos containing pipe, process waste, and higher than anticipated groundwater levels.
    5. Onsite waste management (*i.e.*, stockpile maintenance, characterization sampling and analyses, data evaluation, and waste approvals).
    6. Delays in the delivery of clean fill due to inclement winter weather.

**DAYCO CORPORATION/L.E. CARPENTER AND COMPANY SUPERFUND SITE**  
**USEPA UAO AND SOW ACTION ITEM CHECKLIST**

ACTION ITEM #	COMPLETION TIMEFRAME (Calendar Days from UAO Effective Date)	ACTION ITEM DUE DATE	OVERALL ACTION ITEMS - UAO Section Heading (associated paragraph reference) <sup>(3)(4)</sup>	RESPONSIBLE PARTY	ACTION ITEM COMPLETED	COMPLETED BY	COMPLETED WHEN
1	--	08/06/09	Effective Date of the USEPA UAO and SOW	USEPA	✓	USEPA/LEC/RMT	08/06/09
2	7 days	08/13/09	<i>Notice of Intent to Comply (paragraph 34):</i> Respondent shall provide written notice to EPA's Remedial Project Manager and Assistance Regional Counsel for the Site stating whether it will comply with the terms of the Order.	LEC	✓	LEC	08/13/09
3	5 days - or on day services retained, whichever date occurs later	TBD	<i>Parties Bound (paragraph 36):</i> Respondent shall provide a copy of Order to each contractor, subcontractor, laboratory, or consultant retained to perform any work under the Order within 5 days of the effective date of the Order, or on the date services are retained, whichever date occurs later.	RMT and LEC	✓	RMT and LEC	Real Time <sup>(5)</sup>
4	5 days - following receipt of approved errata sheet or amended UAO <sup>(1)</sup>	09/14/09	<i>Parties Bound (paragraph 37):</i> With respect to real property Respondent owns within the site, record a copy of the Order in the appropriate governmental office where land ownership and transfer records are filed or recorded. Ensure the recording of the Order is indexed to the title of Respondent's real property at the Site.	LEC	✓	LEC	09/28/09
5	7 days <sup>(2)</sup>	08/13/09	<i>Work to be Performed (paragraph 40):</i> Identify a Supervising Contractor and submit a copy of their Quality Management Plan (QMP).	RMT	✓	RMT	08/10/09
6	7 days <sup>(2)</sup>	08/13/09	<i>Work to be Performed (paragraph 41):</i> Identify a Project Coordinator.	RMT	✓	RMT	08/10/09
7	5 days - following completion of Action Item #4 above	09/19/09	<i>Parties Bound (paragraph 37):</i> Send notice to EPA after making recording and indexing stated in action item #4 above	LEC	✓	RMT <sup>(7)</sup>	12/11/09
8	By the 8th of every month	09/08/09	<i>Progress Reports (paragraph 61):</i> 1st Monthly Progress Report Draft to LEC	RMT	✓	RMT	8th of each month
9	30 days	09/05/09	<i>Assurance of Ability to Complete Work (paragraph 81):</i> Demonstrate ability to complete the Work required by this Order and to pay all claims that arise from the performance of the Work (Financial Assurury). EPA added as a beneficiary on Letter of Credit.	LEC	✓	LEC	Nov-2009
10	30 days	09/05/09	<i>SOW - IV. Remedial Action (letter B):</i> Submit an addendum to the NJDEP approved "Remedial Action Work Plan for Source Reduction", RMT, Inc., 2004.	RMT	✓	RMT	09/03/09
11	By the 10th of every month	09/10/09	<i>Progress Reports (paragraph 61):</i> Provide monthly progress reports with actions and activities undertaken pursuant to this Order. Must be submitted on or before the 10th day of each month. Monthly Progress Report Final to EPA [pdf electronic is acceptable]. 1st Progress Report submitted 09/09/09	RMT	✓	RMT	10th of each month
12	60 days	10/05/09	<i>Access to Site Not Owned by Respondent (paragraph 72):</i> Obtain site access agreements from parties other than those bound by this Order to provide access for EPA, its contractors and oversight officials, the state and its contractors, and Respondent and Respondent's authorized representatives and contractors <sup>(6)</sup>	LEC	✓	LEC	2005
13	90 days	11/04/09	<i>Record Preservation (paragraph 78):</i> Respondent shall submit a written certification to EPA's RPM and Site Attorney that it has not altered, mutilated, discarded, destroyed or otherwise disposed of any records, documents, or other information relating to its potential liability with regard to the site since notification of potential liability by the United States or the State or the filing of suit against it regarding the Site.	LEC	✓	LEC	11/27/09
14	45 days	10/22/09	<i>SOW:</i> EPA review and approval of the 2004 RAWP Addendum [assume 45 calendar days]	USEPA	✓	USEPA	12/30/09
15	15 days following EPA approval in item #14	01/14/10	<i>SOW - IV. Remedial Action (letter A):</i> Respondent shall notify EPA in writing the name & qualifications of the construction contractor(s) proposed to perform the Work and submit a copy of their QMP. If EPA disapproves the selection of any contractor, Respondent shall submit a list of contractors that would be acceptable w/in 15 days of receipt of EPA's disapproval. Per phone conference on 8/3/09 only RMT and Analytical Laboratories are required to submit QMPs.	LEC and RMT	✓	RMT	01/12/10
16	7 days prior to commencing work	01/04/10	<i>Assurance of Ability to Complete Work (paragraph 82):</i> Submit to EPA certification that Respondent or its contractors and subcontractors have adequate insurance coverage or have indemnification for liabilities for injuries or damages to persons or property which may result from the activities to be conducted by or on behalf of Respondent pursuant to this Order.	LEC and RMT	✓	RMT	01/12/10
17	As outlined in the 2004 RAWP Addendum Schedule	01/11/10	<i>SOW - IV. Remedial Action (letter D):</i> Perform RA in accordance with the final addendum to the RAWP and the associated project schedule.	RMT	✓	RMT	01/11/10

ACTION ITEM #	COMPLETION TIMEFRAME (Calendar Days from UAO Effective Date)	ACTION ITEM DUE DATE	SOIL REMEDIAL ACTION ITEMS (MW19HS1)	RESPONSIBLE PARTY	ACTION ITEM COMPLETED	COMPLETED BY	COMPLETED WHEN
18a	14 days prior to soil remedy completion	02/23/10	<i>Remedial Action (UAO Paragraph 46) &amp; SOW Section V.A.:</i> Respondent and contractor(s) will be available to accompany EPA personnel and/or representative on a pre-final inspection in accordance with Section VI of the SOW	LEC and RMT	✓	RMT	2/15/2010 <sup>(8)</sup>
19a	7 days prior to item #18a	02/16/10	<i>Pre-Final and Final Inspections, Soil Remedial Action Report, Notice of Construction Completion (Ref. SOW Section V.A.):</i> Respondent shall provide documentation that the Performance Standards related to the soil remedy have been met or will be met at the completion of construction.	LEC and RMT	✓	RMT	2/15/2010 <sup>(8)</sup>
20a	14 days after completion of the construction of corrective measures	TBD	<i>SOW - V. Pre-Final and Final Inspections, Soil Remedial Action Report, Notice of Construction Completion (second letter A):</i> If EPA requires corrective measures following item #18, Respondent and their contractor(s) shall be available to accompany EPA or their rep. on an inspection following completion of the construction of the corrective measures.	LEC and RMT			
21a	Within 21 days of completion of all work	TBD	<i>Remedial Action (paragraph 47):</i> Respondent shall schedule and conduct a final inspection in accordance with Section V.C of the SOW	LEC and RMT			

**DAYCO CORPORATION/L.E. CARPENTER AND COMPANY SUPERFUND SITE**  
**USEPA UAO AND SOW ACTION ITEM CHECKLIST**

22a	14 days of completion of field inspection/corrective action implementation	TBD	<i>SOW - V. Pre-Final and Final Inspections, Soil Remedial Action Report, Notice of Construction Completion (letter C): Submit inspection and corrective action reports, if any, within 14 days of completion of field inspection/corrective action implementation</i>	LEC and RMT			
23a	45 days	TBD	<i>Remedial Action (paragraph 48): After receipt of EPA's determination that soil remedy is complete Respondent shall submit a draft RA report that meets requirements set forth in Section V.E of the SOW</i>	LEC and RMT			

ACTION ITEM #	COMPLETION TIMEFRAME (Calendar Days from UAO Effective Date)	ACTION ITEM DUE DATE	SOIL REMEDIAL ACTION ITEMS (MW-30)	RESPONSIBLE PARTY	ACTION ITEM COMPLETED	COMPLETED BY	COMPLETED WHEN
18b	14 days prior to soil remedy completion	TBD	<i>Remedial Action (paragraph 46): Respondent and contractor(s) will be available to accompany EPA personnel and/or representative on a pre-final inspection in accordance with Section VI of the SOW</i>	LEC and RMT			
19b	7 days prior to item #18	TBD	<i>SOW - V. Pre-Final and Final Inspections, Soil Remedial Action Report, Notice of Construction Completion (letter A): Respondent shall provide documentation that the Performance Standards related to the soil remedy have been met or will be met at the completion of construction.</i>	LEC and RMT			
20b	14 days after completion of the construction of corrective measures	TBD	<i>SOW - V. Pre-Final and Final Inspections, Soil Remedial Action Report, Notice of Construction Completion (second letter A): If EPA requires corrective measures following item #18, Respondent and their contractor(s) shall be available to accompany EPA or their rep. on an inspection following completion of the construction of the corrective measures.</i>	LEC and RMT			
20b	Within 21 days of completion of all work	TBD	<i>Remedial Action (paragraph 47): Respondent shall schedule and conduct a final inspection in accordance with Section V.C of the SOW</i>	LEC and RMT			
22b	14 days of completion of field inspection/corrective action implementation	TBD	<i>SOW - V. Pre-Final and Final Inspections, Soil Remedial Action Report, Notice of Construction Completion (letter C): Submit inspection and corrective action reports, if any, within 14 days of completion of field inspection/corrective action implementation</i>	LEC and RMT			
23b	45 days	TBD	<i>Remedial Action (paragraph 48): After receipt of EPA's determination that soil remedy is complete Respondent shall submit a draft RA report that meets requirements set forth in Section V.E of the SOW</i>	LEC and RMT			

ACTION ITEM #	COMPLETION TIMEFRAME (Calendar Days from UAO Effective Date)	ACTION ITEM DUE DATE	GROUNDWATER MNA EVALUATION ACTION ITEMS (SITE WIDE)	RESPONSIBLE PARTY	ACTION ITEM COMPLETED	COMPLETED BY	COMPLETED WHEN
24	21 days of receipt of sample results from final sampling event	TBD	<i>SOW - VI. Groundwater Monitored Natural Attenuation Evaluation (letter B): Submit to EPA a Site-Wide Groundwater Monitored Natural Attenuation Report summarizing the results of the effort and its findings.</i>	RMT			
25	10 days following EPA's request to prepare a FFS	TBD	<i>SOW - VII. Focused Feasibility Study: If EPA determines from item #24 that MNA is a viable alternative to address contaminated groundwater at the site, EPA will request the preparation of a FFS. Respondent will submit a schedule for the preparation of the FFS to EPA within 10 days of this request.</i>	RMT			
26	60 days	TBD	<i>SOW - VII. Focused Feasibility Study (letter C): Submit a draft FFS report to EPA following submittal of item #25.</i>	RMT			
27	30 days after item #26	TBD	<i>SOW - VII. Focused Feasibility Study (letter C): Meet with EPA to summarize and discuss findings of the draft FFS Report and EPA's preliminary comments and concerns.</i>	LEC and RMT			
28	30 days after receiving EPA's written comments	TBD	<i>SOW - VII. Focused Feasibility Study (letter C): Amend and submit a revised FFS Report.</i>	RMT			

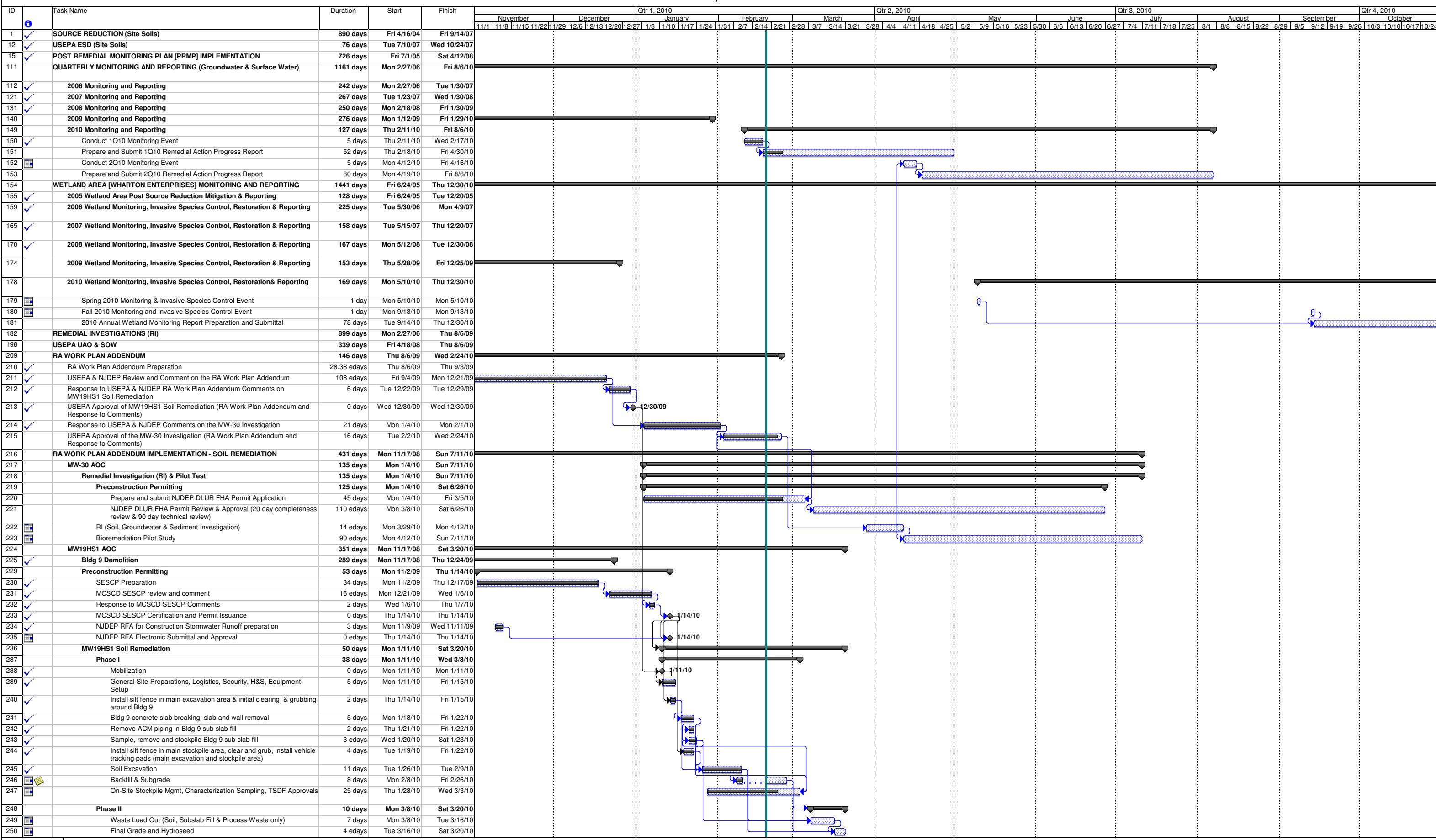
ACTION ITEM #	COMPLETION TIMEFRAME (Calendar Days from UAO Effective Date)	ACTION ITEM DUE DATE	CONTINGENT ACTION ITEMS (SITE WIDE)	RESPONSIBLE PARTY	ACTION ITEM COMPLETED	COMPLETED BY	COMPLETED WHEN
29	30 days from receipt of notice from EPA	TBD	<i>Failure to Attain Performance Standards (paragraph 51): If EPA determines that additional response activities are necessary to meet any applicable Performance Standards, the Respondent shall submit, for approval by EPA, a work plan for the additional response activities.</i>	RMT			
30	30 days from receipt of notice from EPA	TBD	<i>Additional Response Actions (paragraph 54): If EPA determines that additional response activities are necessary to protect human health and the environment, the Respondent shall submit a work plan for the response activities to EPA for review and approval.</i>	RMT			
31	7 days after receipt of EPA's request (item #30)	TBD	<i>Additional Response Actions (paragraph 54): If EPA determines that additional response activities are necessary to protect human health and the environment, the Respondent shall submit a work plan for the response activities to EPA for review and approval.</i>	RMT			
32	21 days from receipt of disapproval notice/request for modification	TBD	<i>EPA Review of Submissions (paragraph 59): Respondent shall correct the deficiencies and resubmit the report, plan, or other item for approval.</i>	RMT			
33	5 days prior to new Project Coordinator	TBD	<i>Remedial Project Manager (paragraph 71): Provide written notice to EPA of the name and qualifications of the new Respondent Project Coordinator. Selection is subject to EPA approval.</i>	LEC and RMT			
34	48 hours	TBD	<i>Delay In Performance (paragraph 80): Notify EPA's RPM by telephone of anticipated delay in performing any requirement of this Order.</i>	LEC and RMT			
35	5 business days following item #34	TBD	<i>Delay In Performance (paragraph 80): Provide written notification describing the nature and justification of the delay (described in item #34) in addition to the measure planned and taken to minimize the delay.</i>	LEC and RMT			
36	60 days prior to transfer	TBD	<i>Parties Bound (paragraph 38): Submit a true and correct copy of transfer document(s) to EPA identifying the transferee by name, principal business address and effective date of transfer.</i>	LEC			
37	28 days prior to event	TBD	<i>QA, Sampling and Data Analysis (paragraph 63): Notify EPA in advance of any sample collection activity.</i>	RMT			
38	10 years	08/04/19	<i>Record Preservation (paragraph 77): Respondent shall preserve and retain all records and documents in its or any of their contractors possession/control that relate in any manner to the Site.</i>	LEC and RMT			

**DAYCO CORPORATION/L.E. CARPENTER AND COMPANY SUPERFUND SITE**  
**USEPA UAO AND SOW ACTION ITEM CHECKLIST**

39	90 days prior to record or document destruction following item #38	TBD	<i>Record Preservation (paragraph 77): Following the preservation period outlined in item #38, Respondent shall notify the US prior to the destruction of any such records/documents.</i>	LEC			
40	Prior to off-site shipments of hazardous substances	--	<i>Remedial Action (paragraph 45): Provide written notification to appropriate state environmental official in receiving state and to EPA's RPM (See UAO for detailed notification requirements). Does not apply when total volume of all shipments from the Site to the State will not exceed 10 cubic yards.</i>	LEC and RMT			

**Notes**

- 1) LEC granted an extension on this date as outlined in USEPA email dated August 3, 2009. Emailed pdf copies of Amended UAO received 9/8/09.
- 2) Identification of Supervising Contractor and Project Coordinator should be presented on LEC letterhead.
- 3) All requirements and descriptions summarized in this column are UAO driven and referenced with the exception of those stating "SOW".
- 4) Rows shown in **Bold** are items that have been completed.
- 5) This item will be completed when any contractor, subcontractor, laboratory, or consultant are retained to perform services related to completion of the Statement of Work (SOW).  
Dallas Contracting, EWMI/Rapid Response, JFNew, Trace Labs and Denis Sklar Surveying were copied on the UAO in a Jan 5, 2010 email. COIs and SOQs were requested (Ref. Item 15).
- 6) Access agreements between LEC and Air Products and Wharton Enterprises were finalized in 2005 prior to the Source Reduction Remediation.
- 7) EPA notice that LEC recorded a copy of the UAO with Morris County was provided in an email from RMT dated 12/11/09 and in the November 2009 Progress Report.
- 8) Action item completed as part of Progress Report No. 4 dated Feb 15, 2010. Based on a project completion date of March 12, 2010.



246 Backfill & Subgrade  
Task split due to Tilcon (Borrow Source) delays trucking fill from quarry due to winter weather

**DAYCO CORPORATION/L.E. CARPENTER SUPERFUND SITE**  
**MW19HS1 Post Excavation Confirmatory Soil Samples**

PARAMETER	UNITS	RDCSRS	NRDCSRS	IMPACT TO GW SOIL SCREENING LEVEL <sup>(1)</sup>	SAMPLE ID	SS-19HS1-20S10W	SS-19HS1-30S10W	SS-19HS1-20S27W	SS-19HS1-30S27W	SS-19HS1-20S45W
					LAB ID	T10B014-01	T10B014-02	T10B014-03	T10B014-04	T10B014-05
					SAMPLE DATE	2/1/2010	2/1/2010	2/1/2010	2/1/2010	2/1/2010
					DETECTION LIMIT					
Bis(2-ethylhexyl)phthalate	mg/kg dry	35	140	790	0.33	<0.33	<0.33	<0.33	0.44	18
Benzene	mg/kg dry	2	5	0.005	0.0052	<0.0052	<0.0047	<0.0048	<0.0043	<0.0023
Toluene	mg/kg dry	6,300	91,000	4	0.0052	<b>0.034</b>	<b>0.018</b>	<b>0.024</b>	<b>0.014</b>	<b>0.028</b>
Ethylbenzene	mg/kg dry	7,800	110,000	8	0.0052	<0.0052	<0.0047	<0.0048	<0.0043	<0.0023
m,p-Xylene	mg/kg dry	NA	NA	NA	0.010	<0.010	<0.0094	<0.0097	<0.0086	<b>0.0072</b>
o-Xylene	mg/kg dry	NA	NA	NA	0.0052	<0.0052	<0.0047	<0.0048	<0.0043	<0.0023
Xylenes, total	mg/kg dry	12,000	170,000	12	0.016	<0.016	<0.014	<0.015	<0.013	<b>0.0095</b>
% Solids	% by Wt.	--	--	--	0.10	<b>69</b>	<b>87</b>	<b>77</b>	<b>88</b>	<b>85</b>

**NOTES**

NA = Standard Not Available

RDCSRS: Residential Direct Contact Soil Remediation Standard

NRDCSRS: Nonresidential Direct Contact Soil Remediation Standard

(1) Criteria taken from the NJDEP guidance document "Development of Site Specific Impact to Groundwater Soil Remediation Standards Using the Soil Water Partition Equation" dated December 2008.

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PARAMETER	UNITS	RDCSRS	NRDCSRS	IMPACT TO GW SOIL SCREENING LEVEL <sup>(1)</sup>	SAMPLE ID	SS-19HS1-30S45W	SS-19HSI-10S70W	SS-19HSI-9S 65W	SS-19HSI-10N 68W	SS-19HSI-10N 60W
					LAB ID	T10B014-06	T10B066-01	T10B066-02	T10B066-03	T10B066-04
					SAMPLE DATE	2/1/2010	2/4/2010	2/4/2010	2/4/2010	2/4/2010
					DETECTION LIMIT					
Bis(2-ethylhexyl)phthalate	mg/kg dry	35	140	790	0.33	11	1.2	1.3	<0.33	1.9
Benzene	mg/kg dry	2	5	0.005	0.0052	<0.0022	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	mg/kg dry	6,300	91,000	4	0.0052	<b>0.0048</b>	<0.0050	<b>0.032</b>	<0.0050	<0.0050
Ethylbenzene	mg/kg dry	7,800	110,000	8	0.0052	<0.0022	<0.0050	<0.0050	<0.0050	<0.0050
m,p-Xylene	mg/kg dry	NA	NA	NA	0.010	<0.0043	<0.010	<b>0.016</b>	<0.010	<0.010
o-Xylene	mg/kg dry	NA	NA	NA	0.0052	<0.0022	<0.0050	<b>0.0053</b>	<0.0050	<0.0050
Xylenes, total	mg/kg dry	12,000	170,000	12	0.016	<0.0065	<0.015	<b>0.021</b>	<0.015	<0.015
% Solids	% by Wt.	--	--	--	0.10	89	94	91	93	88

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NRDCSRS: Nonresidential Direct Contact Soil Remediation Standard

(1) Criteria taken from the NJDEP guidance document "Development of Site Specific Impact to Groundwater Soil Remediation Standards Using the Soil Water Partition Equation" dated December 2008.

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PARAMETER	UNITS	RDCSRS	NRDCSRS	IMPACT TO GW SOIL SCREENING LEVEL <sup>(1)</sup>	SAMPLE ID	SS-19HSI-30N 51W	SS-19HSI-25N 48W	SS-19HSI-40N 30W	SS-19HSI-35N 30W	SS-19HSI-38N 10W
					LAB ID	T10B066-05	T10B066-06	T10B066-07	T10B066-08	T10B066-09
					SAMPLE DATE	2/4/2010	2/4/2010	2/4/2010	2/4/2010	2/4/2010
					DETECTION LIMIT					
Bis(2-ethylhexyl)phthalate	mg/kg dry	35	140	790	0.33	<0.33	<0.33	3.9	20	12
Benzene	mg/kg dry	2	5	0.005	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	mg/kg dry	6,300	91,000	4	0.0052	<0.0050	<0.0050	0.0084	<0.0050	0.050
Ethylbenzene	mg/kg dry	7,800	110,000	8	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
m,p-Xylene	mg/kg dry	NA	NA	NA	0.010	<0.010	<0.010	<0.010	<0.010	<0.010
o-Xylene	mg/kg dry	NA	NA	NA	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Xylenes, total	mg/kg dry	12,000	170,000	12	0.016	<0.015	<0.015	<0.015	<0.015	<0.015
% Solids	% by Wt.	--	--	--	0.10	80	88	92	82	86

**NOTES**

NA = Standard Not Available

RDCSRS: Residential Direct Contact Soil Remediation Standard

NRDCSRS: Nonresidential Direct Contact Soil Remediation Standard

(1) Criteria taken from the NJDEP guidance document "Development of Site Specific Impact to Groundwater Soil Remediation Standards Using the Soil Water Partition Equation" dated December 2008.

**DAYCO CORPORATION/L.E. CARPENTER SUPERFUND SITE**  
**MW19HS1 Post Excavation Confirmatory Soil Samples**

PARAMETER	UNITS	RDCSRS	NRDCSRS	IMPACT TO GW SOIL SCREENING LEVEL <sup>(1)</sup>	SAMPLE ID	SS-19HSI-30N 10W	SS-19HSI-DUP-01	SS-19HS1-22S 5E	SS-19HS1-9S 5E	SS-19HS1-8N 3E	
					LAB ID	T10B066-10	T10B066-11	T10B091-01	T10B091-02	T10B091-03	
					SAMPLE DATE	2/4/2010	2/4/2010	2/8/2010	2/8/2010	2/8/2010	
					DETECTION LIMIT						
Bis(2-ethylhexyl)phthalate	mg/kg dry	35	140	790		0.33	<0.33	1.7	<0.52	6.3	1.5
Benzene	mg/kg dry	2	5	0.005		0.0052	<0.0050	<0.0050	<0.0059	<0.0050	<0.0050
Toluene	mg/kg dry	6,300	91,000	4		0.0052	<0.0050	<0.0050	<0.0059	0.0085	<0.0050
Ethylbenzene	mg/kg dry	7,800	110,000	8		0.0052	<0.0050	<0.0050	<0.0059	0.0052	<0.0050
m,p-Xylene	mg/kg dry	NA	NA	NA		0.010	<0.010	<0.010	<0.012	0.011	<0.010
o-Xylene	mg/kg dry	NA	NA	NA		0.0052	<0.0050	<0.0050	<0.0059	0.0087	<0.0050
Xylenes, total	mg/kg dry	12,000	170,000	12		0.016	<0.015	<0.015	<0.018	0.019	<0.015
% Solids	% by Wt.	--	--	--		0.10	81	90	80	81	87

**NOTES**

NA = Standard Not Available

RDCSRS: Residential Direct Contact Soil Remediation Standard

NRDCSRS: Nonresidential Direct Contact Soil Remediation Standard

(1) Criteria taken from the NJDEP guidance document "Development of Site Specific Impact to Groundwater Soil Remediation Standards Using the Soil Water Partition Equation" dated December 2008.

**DAYCO CORPORATION/L.E. CARPENTER SUPERFUND SITE**  
**MW19HS1 Post Excavation Confirmatory Soil Samples**

PARAMETER	UNITS	RDCSRS	NRDCSRS	IMPACT TO GW SOIL SCREENING LEVEL <sup>(1)</sup>	SAMPLE ID	SS-19HS1-9N 10E	SS-19HS1-21N 0E	SS-19HS1-27N 5E	SS-19HS1-DUP-02	SS-19HS1-DUP-03
					LAB ID	T10B091-04	T10B091-05	T10B091-06	T10B091-07	T10B091-08
					SAMPLE DATE	2/8/2010	2/8/2010	2/8/2010	2/8/2010	2/8/2010
					DETECTION LIMIT					
Bis(2-ethylhexyl)phthalate	mg/kg dry	35	140	790	0.33	1.6	2.9	2.0	2.2	3.0
Benzene	mg/kg dry	2	5	0.005	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0052
Toluene	mg/kg dry	6,300	91,000	4	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0052
Ethylbenzene	mg/kg dry	7,800	110,000	8	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0052
m,p-Xylene	mg/kg dry	NA	NA	NA	0.010	<0.010	<0.010	<0.010	<0.010	<0.010
o-Xylene	mg/kg dry	NA	NA	NA	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0052
Xylenes, total	mg/kg dry	12,000	170,000	12	0.016	<0.015	<0.015	<0.015	<0.015	<0.016
% Solids	% by Wt.	--	--	--	0.10	94	89	94	85	88

**NOTES**

NA = Standard Not Available

RDCSRS: Residential Direct Contact Soil Remediation Standard

NRDCSRS: Nonresidential Direct Contact Soil Remediation Standard

(1) Criteria taken from the NJDEP guidance document "Development of Site Specific Impact to Groundwater Soil Remediation Standards Using the Soil Water Partition Equation" dated December 2008.



phone 231.773.5998      *Trace Analytical Laboratories, Inc.*  
toll-free 800.733.5998  
fax 231.773.6537  
2241 Black Creek Road  
Muskegon, MI 49444-2673  
[info@trace-labs.com](mailto:info@trace-labs.com)  
[www.trace-labs.com](http://www.trace-labs.com)

January 20, 2010

Ms. Jennifer Overvoorde  
RMT, Inc.  
2025 E. Beltline Ave. SE Suite 402  
Grand Rapids, MI 49546

Phone: (616) 975-5415  
Fax: (616) 975-1098

RE: Trace ID: T10A153

Dear Ms. Overvoorde:

Enclosed are your analytical results associated with your project for LEC MW19HS1 Remediation / 6527.40.

The results were obtained from EMSL Analytical, Inc..

Thank you for working with Trace. If you have questions concerning this report, please contact me at 231.773.5998 or by email at [jmink@trace-labs.com](mailto:jmink@trace-labs.com).

Sincerely,



Jon Mink  
Project Manager

Enclosures



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Report ID: T10A153 FINAL 01 20 10 1216



**EMSL Analytical, Inc.**

212 South Wagner Road, Ann Arbor, MI 48103

Phone: (734) 668-6810 Fax: (734) 668-8532 Email: annarborlab@emsl.com

Attn: **Jon Mink**  
**Trace Analytical Laboratories Inc.**  
**Environmental Services**  
**2241 Black Creek Rd.**  
**Muskegon, MI 49444**

Fax: (231) 773-6537

Phone: (231) 773-5998

Project: T10A153

Customer ID: TAL155  
 Customer PO:  
 Received: 01/20/10 10:00 AM  
 EMSL Order: 081000144

EMSL Proj:  
 Analysis Date: 1/20/2010

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using  
 Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
T10A153-001 081000144-0001	Bldg 9 Pipe	Gray Fibrous Homogeneous		65% Non-fibrous (other)	15% Chrysotile 20% Crocidolite	

**Analyst(s)**

Brian Walczak (1)

Brian Walczak, Laboratory Manager  
 or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Samples analyzed by EMSL Analytical, Inc. 212 South Wagner Road, Ann Arbor MI NVLAP Lab Code 101048-4

**CERTIFICATE OF ANALYSIS**

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**TRACE**  
the science of compliance

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Muskegon, MI 49444-2673  
[www.trace-labs.com](http://www.trace-labs.com)

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1 **T10A153** TRACE ID NO.

Request for Analytical Services										Report Results To:	
Client Name: <b>RMT, Inc.</b>		Mailing Address: <b>202 S. E. BELLEVUE AVE. SE, Suite 402 Grand Rapids MI 49506</b>									
Contact Person: <b>Jeanne Queiroz</b>		City, State, Zip Code: <b>66-973-5415</b>									
		Phone: <b>66-973-5415</b> Fax: <b>66-973-1098</b>									
		Email Address: <b>JENQUE@RMTINC.COM</b>									
		Project #: <b>6527-40</b> PO #: <b>Trace</b> Sampled by: <b>SP</b> Quote #: <b>01/19/10</b>									
		Bill To: <b>City, State, Zip Code: Madison, WI</b>									
		Attn: <b>Phone: _____ Fax: _____</b>									
		Billing Address (if different): <b>6119/10 1430 W. BLDG. 9 Pipe</b>									
CLIENT SAMPLE ID											
Item #		DATE TAKEN	TIME TAKEN	METALS FIELD FILTERED		MATRIX		NUMBER OF CONTAINERS		REMARKS	
<b>1</b>		<b>1/19/10</b>	<b>1430 W. BLDG. 9 Pipe</b>	<b>51 X</b>		<b>ASBESTOS Bulk PUM 600</b>		<b>Possible Health Hazard</b>			
TRADE USE ONLY											
Regulatory Requirements											
Toxicological Requirements											
Matrix Key											
NEPA TMDL's											
Drinking Water											
NPFDES											
USACE											
Special											
• Requires prior approval											
Standard (2 wk) <input type="checkbox"/> 5 Day <input type="checkbox"/> 24 Day (RUSH) <input checked="" type="checkbox"/> 24 Hour (RUSH) <input type="checkbox"/>											
W = Soil <input type="checkbox"/> S = Sediment <input type="checkbox"/> W = Water <input type="checkbox"/> LW = Liquid Waste											
SE = Sediment <input type="checkbox"/> OI = Oil <input type="checkbox"/> A = Air <input type="checkbox"/> D = Drinking Water											
SO = Solid Waste <input type="checkbox"/> SL = Sludge <input type="checkbox"/>											
ANALYSIS REQUESTED											

PAGE 01

DAVE CONDON

01/19/2010 16:52 19733665837

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Report ID: T10A153 FINAL 01 20 10 1216

In executing this agreement, the client acknowledges acceptance of the terms of the agreement as listed on the reverse side.



February 04, 2010

Ms. Jennifer Overvoorde  
RMT, Inc.  
2025 E. Beltline Ave. SE Suite 402  
Grand Rapids, MI 49546

Phone: (616) 975-5415  
Fax: (616) 975-1098

RE: Trace Project T10A215  
Client Project LEC MW19HS1 Remediation / 6527.40

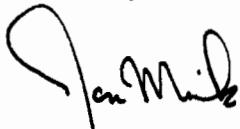
Dear Ms. Overvoorde:

Enclosed are your analytical results.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work. Some reports may have raised reporting limits to correct for percent solids.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,



Jon Mink  
Project Manager

Enclosures



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## SAMPLE SUMMARY

Trace Project ID: T10A215  
Client Project ID: LEC MW19HS1 Remediation / 6527.40

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
T10A215-01	WPS-19HS1-10-1	Soil	sp	01/26/10 15:30	01/27/10 10:28

## CERTIFICATE OF ANALYSIS

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## AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

### DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
RDL	Reporting Detection Limit
MCL	Maximum Contamination Limit
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

### DATA QUALIFIERS

---

Trace ID: T014619-MS1

**Analysis: EPA Chapter 7.3**

<b>Sulfide, Reactive</b>	Note 229 : The MS and MSD recoveries were out of control. The RPD between the MS and MSD was also out of control. The result for this analyte, in the non-spiked version of the sample, must be considered estimated.
--------------------------	---

---

Trace ID: T014619-MSD1

**Analysis: EPA Chapter 7.3**

<b>Sulfide, Reactive</b>	Note 229 : The MS and MSD recoveries were out of control. The RPD between the MS and MSD was also out of control. The result for this analyte, in the non-spiked version of the sample, must be considered estimated.
--------------------------	---

---

Trace ID: T014694-MSD1

**Analysis: EPA 8260B**

<b>Toluene</b>	Note 222.5 : The MS and MSD recoveries were out of control. Because the sample background concentration of this analyte is greater than the spike amount, no data require qualification.
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Trace ID: T10A215-01

**Analysis: EPA 8082**

<b>Tetrachloro-m-xylene</b>	Note 303 : The secondary surrogate (tetrachloro-m-xylene) recovery for this sample fell outside the laboratory established control limits. The primary surrogate (decachlorobiphenyl) recovery was in control. No data require qualification.
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**Analysis: EPA 8270C**

<b>2,4,6-Tribromophenol</b>	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
-----------------------------	---

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<b>2-Fluorobiphenyl</b>	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
<b>2-Fluorophenol</b>	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
<b>Nitrobenzene-d5</b>	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
<b>Phenol-d5</b>	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
<b>Terphenyl-d14</b>	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

### **Analysis: EPA Chapter 7.3**

**Sulfide, Reactive** Note 229 : The MS and MSD recoveries were out of control. The RPD between the MS and MSD was also out of control. The result for this analyte, in the non-spiked version of the sample, must be considered estimated.

## **CERTIFICATE OF ANALYSIS**

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## ANALYTICAL RESULTS

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

Trace ID:	T10A215-01	Date Collected:	01/26/10 15:30	Matrix:	Soil
Sample ID:	WPS-19HS1-10-1	Date Received:	01/27/10 10:28		

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED BY	ANALYZED BY	NOTES	MCL
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### VOLATILE ORGANIC COMPOUNDS BY GC-MS

*Analysis Method: EPA 8260B*

Batch: T014694

Dichlorodifluoromethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Chloromethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Vinyl chloride	<5.1 mg/kg dry	5.1	5000	02/02/10	jp	02/02/10	jp
Bromomethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Chloroethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Trichlorofluoromethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Diethyl ether	<25 mg/kg dry	25	5000	02/02/10	jp	02/02/10	jp
Tert-butyl alcohol	<320 mg/kg dry	320	5000	02/02/10	jp	02/02/10	jp
1,1-Dichloroethene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Acetone	<95 mg/kg dry	95	5000	02/02/10	jp	02/02/10	jp
Iodomethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Carbon disulfide	<32 mg/kg dry	32	5000	02/02/10	jp	02/02/10	jp
Methyl-tert-butyl ether	<32 mg/kg dry	32	5000	02/02/10	jp	02/02/10	jp
Methylene chloride	<13 mg/kg dry	13	5000	02/02/10	jp	02/02/10	jp
Acrylonitrile	<13 mg/kg dry	13	5000	02/02/10	jp	02/02/10	jp
trans-1,2-Dichloroethene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,1-Dichloroethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Diisopropyl Ether	<32 mg/kg dry	32	5000	02/02/10	jp	02/02/10	jp
<b>2-Butanone</b>	<b>4600 mg/kg dry</b>	<b>1900</b>	<b>100000</b>	<b>02/02/10</b>	<b>jp</b>	<b>02/02/10</b>	<b>jp</b>
cis-1,2-Dichloroethene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
t-Butyl Ethyl Ether	<32 mg/kg dry	32	5000	02/02/10	jp	02/02/10	jp
Bromochloromethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Tetrahydrofuran	<130 mg/kg dry	130	5000	02/02/10	jp	02/02/10	jp
Chloroform	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
<b>1,1,1-Trichloroethane</b>	<b>68 mg/kg dry</b>	<b>6.4</b>	<b>5000</b>	<b>02/02/10</b>	<b>jp</b>	<b>02/02/10</b>	<b>jp</b>
Carbon tetrachloride	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Benzene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
t-Amyl Methyl Ether	<32 mg/kg dry	32	5000	02/02/10	jp	02/02/10	jp
<b>1,2-Dichloroethane</b>	<b>28 mg/kg dry</b>	<b>6.4</b>	<b>5000</b>	<b>02/02/10</b>	<b>jp</b>	<b>02/02/10</b>	<b>jp</b>
Cyclohexane	<32 mg/kg dry	32	5000	02/02/10	jp	02/02/10	jp
Trichloroethene	<23 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,2-Dichloropropane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Dibromomethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Bromodichloromethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
cis-1,3-Dichloropropene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp

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## ANALYTICAL RESULTS

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

Trace ID:	T10A215-01	Date Collected:	01/26/10 15:30	Matrix:	Soil
Sample ID:	WPS-19HS1-10-1	Date Received:	01/27/10 10:28		

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED BY	ANALYZED BY	NOTES	MCL
<b>VOLATILE ORGANIC COMPOUNDS BY GC-MS</b>							
4-Methyl-2-pentanone	<6400 mg/kg dry	6400	100000	02/02/10	jp	02/02/10	jp
Toluene	41000 mg/kg dry	640	500000	02/02/10	jp	02/02/10	jp
trans-1,3-Dichloropropene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,1,2-Trichloroethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Tetrachloroethylene	35 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
2-Hexanone	<320 mg/kg dry	320	5000	02/02/10	jp	02/02/10	jp
Dibromochloromethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,2-Dibromoethane (EDB)	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Chlorobenzene	16 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,1,1,2-Tetrachloroethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Ethylbenzene	510 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
m,p-Xylene	2000 mg/kg dry	13	5000	02/02/10	jp	02/02/10	jp N
o-Xylene	810 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp N
Xylenes, total	2900 mg/kg dry	19	5000	02/02/10	jp	02/02/10	jp N
Styrene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Bromoform	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Isopropylbenzene	40 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,1,2,2-Tetrachloroethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,2,3-Trichloropropane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
trans-1,4-Dichloro-2-butene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Bromobenzene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
n-Propylbenzene	46 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,3,5-Trimethylbenzene	94 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
t-Butyl Benzene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,2,4-Trimethylbenzene	190 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
sec-Butylbenzene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
p-Isopropyltoluene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,3-Dichlorobenzene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,4-Dichlorobenzene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
n-Butylbenzene	18 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,2,3-Trimethylbenzene	50 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp N
1,2-Dichlorobenzene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,2-Dibromo-3-chloropropane	<13 mg/kg dry	13	5000	02/02/10	jp	02/02/10	jp
Hexachloroethane	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
1,2,4-Trichlorobenzene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp
Naphthalene	34 mg/kg dry	32	5000	02/02/10	jp	02/02/10	jp N
1,2,3-Trichlorobenzene	<6.4 mg/kg dry	6.4	5000	02/02/10	jp	02/02/10	jp

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## ANALYTICAL RESULTS

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

Trace ID:	T10A215-01	Date Collected:	01/26/10 15:30	Matrix:	Soil
Sample ID:	WPS-19HS1-10-1	Date Received:	01/27/10 10:28		

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED BY	ANALYZED BY	NOTES	MCL
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### VOLATILE ORGANIC COMPOUNDS BY GC-MS

2-Methylnaphthalene	<32 mg/kg dry	32	5000	02/02/10	jp	02/02/10	jp	N
<b>Surrogates:</b>								
1,2-Dichloroethane-d4	99 %	70-133	5000	02/02/10	jp	02/02/10	jp	
1,2-Dichloroethane-d4	99 %	70-133	100000	02/02/10	jp	02/02/10	jp	
1,2-Dichloroethane-d4	101 %	70-133	500000	02/02/10	jp	02/02/10	jp	
Toluene-d8	108 %	76-125	5000	02/02/10	jp	02/02/10	jp	
Toluene-d8	105 %	76-125	100000	02/02/10	jp	02/02/10	jp	
Toluene-d8	106 %	76-125	500000	02/02/10	jp	02/02/10	jp	
4-Bromofluorobenzene	100 %	71-123	5000	02/02/10	jp	02/02/10	jp	
4-Bromofluorobenzene	102 %	71-123	100000	02/02/10	jp	02/02/10	jp	
4-Bromofluorobenzene	104 %	71-123	500000	02/02/10	jp	02/02/10	jp	
1,2-Dichlorobenzene-d4	93 %	72-123	5000	02/02/10	jp	02/02/10	jp	
1,2-Dichlorobenzene-d4	92 %	72-123	100000	02/02/10	jp	02/02/10	jp	
1,2-Dichlorobenzene-d4	93 %	72-123	500000	02/02/10	jp	02/02/10	jp	

### VOLATILE ORGANIC COMPOUNDS, TCLP

*Analysis Method: EPA 8260B*

Batch: T014717

Vinyl chloride	<0.050 mg/L	0.050	50	02/03/10	jp	02/03/10	jp	0.20
1,1-Dichloroethene	<0.050 mg/L	0.050	50	02/03/10	jp	02/03/10	jp	0.70
<b>2-Butanone</b>	<b>34 mg/L</b>	<b>2.5</b>	<b>500</b>	<b>02/03/10</b>	<b>jp</b>	<b>02/03/10</b>	<b>jp</b>	<b>200</b>
Chloroform	<0.050 mg/L	0.050	50	02/03/10	jp	02/03/10	jp	6.0
Carbon tetrachloride	<0.050 mg/L	0.050	50	02/03/10	jp	02/03/10	jp	0.50
Benzene	<0.050 mg/L	0.050	50	02/03/10	jp	02/03/10	jp	0.50
<b>1,2-Dichloroethane</b>	<b>0.20 mg/L</b>	<b>0.050</b>	<b>50</b>	<b>02/03/10</b>	<b>jp</b>	<b>02/03/10</b>	<b>jp</b>	<b>0.50</b>
Trichloroethene	<0.050 mg/L	0.050	50	02/03/10	jp	02/03/10	jp	0.50
Tetrachloroethene	<0.050 mg/L	0.050	50	02/03/10	jp	02/03/10	jp	0.70
Chlorobenzene	<0.050 mg/L	0.050	50	02/03/10	jp	02/03/10	jp	100
1,4-Dichlorobenzene	<0.050 mg/L	0.050	50	02/03/10	jp	02/03/10	jp	7.5

**Surrogates:**

1,2-Dichloroethane-d4	103 %	70-133	50	02/03/10	jp	02/03/10	jp
1,2-Dichloroethane-d4	103 %	70-133	500	02/03/10	jp	02/03/10	jp
Toluene-d8	106 %	76-125	50	02/03/10	jp	02/03/10	jp
Toluene-d8	104 %	76-125	500	02/03/10	jp	02/03/10	jp
4-Bromofluorobenzene	101 %	72-123	50	02/03/10	jp	02/03/10	jp
4-Bromofluorobenzene	96 %	72-123	500	02/03/10	jp	02/03/10	jp
1,2-Dichlorobenzene-d4	92 %	71-123	50	02/03/10	jp	02/03/10	jp

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## ANALYTICAL RESULTS

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

Trace ID:	T10A215-01	Date Collected:	01/26/10 15:30	Matrix:	Soil
Sample ID:	WPS-19HS1-10-1	Date Received:	01/27/10 10:28		

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED BY	ANALYZED BY	NOTES	MCL
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### VOLATILE ORGANIC COMPOUNDS, TCLP

1,2-Dichlorobenzene-d4	90 %	71-123	500	02/03/10	jp	02/03/10	jp
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### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T014620

Bis(2-chloroethyl)ether	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10	avl
2-Chlorophenol	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
<b>Phenol</b>	<b>1.5 mg/kg dry</b>	<b>1.0</b>	<b>10</b>	<b>01/29/10</b>	<b>kb</b>	<b>02/02/10</b>	<b>avl</b>
1,3-Dichlorobenzene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
1,4-Dichlorobenzene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
1,2-Dichlorobenzene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
Benzyl alcohol	<7.9 mg/kg dry	7.9	10	01/29/10	kb	02/02/10	avl
Bis(2-chloroisopropyl)ether	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
2-Methylphenol (o-Cresol)	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
3,4-Methylphenol (m,p Cresol)	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
N-Nitrosodi-n-propylamine	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
Hexachloroethane	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
Nitrobenzene	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10	avl
<b>Isophorone</b>	<b>7.6 mg/kg dry</b>	<b>1.0</b>	<b>10</b>	<b>01/29/10</b>	<b>kb</b>	<b>02/02/10</b>	<b>avl</b>
2-Nitrophenol	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
2,4-Dimethylphenol	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
Bis(2-chloroethoxy)methane	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
Benzoic acid	<14 mg/kg dry	14	10	01/29/10	kb	02/02/10	avl
1,2,4-Trichlorobenzene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
2,4-Dichlorophenol	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
<b>Naphthalene</b>	<b>1.7 mg/kg dry</b>	<b>1.0</b>	<b>10</b>	<b>01/29/10</b>	<b>kb</b>	<b>02/02/10</b>	<b>avl</b>
4-Chloroaniline	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
Hexachlorobutadiene	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10	avl
4-Chloro-3-methylphenol	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
2-Methylnaphthalene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
Hexachlorocyclopentadiene	<2.0 mg/kg dry	2.0	10	01/29/10	kb	02/02/10	avl
2,4,6-Trichlorophenol	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10	avl
2,4,5-Trichlorophenol	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
2-Chloronaphthalene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
2-Nitroaniline	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl
Dimethyl phthalate	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10	avl

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## ANALYTICAL RESULTS

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

Trace ID:	T10A215-01		Date Collected:	01/26/10 15:30	Matrix:	Soil	
Sample ID:	WPS-19HS1-10-1		Date Received:	01/27/10 10:28			
PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED BY	ANALYZED BY	
<b>SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS</b>							
Acenaphthylene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
2,6-Dinitrotoluene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
3-Nitroaniline	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
Acenaphthene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
Dibenzofuran	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
2,4-Dinitrotoluene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
4-Nitrophenol	<8.0 mg/kg dry	8.0	10	01/29/10	kb	02/02/10 avl	
2,4-Dinitrophenol	<8.0 mg/kg dry	8.0	10	01/29/10	kb	02/02/10 avl	
Diethyl phthalate	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
Fluorene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
4-Chlorophenyl phenyl ether	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
4-Nitroaniline	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
4,6-Dinitro-2-methylphenol	<2.0 mg/kg dry	2.0	10	01/29/10	kb	02/02/10 avl	
N-Nitrosodiphenylamine	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
4-Bromophenyl phenyl ether	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
Hexachlorobenzene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
Pentachlorophenol	<4.3 mg/kg dry	4.3	10	01/29/10	kb	02/02/10 avl	
Phenanthrene	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10 avl	
Anthracene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
Carbazole	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
Di-n-butyl phthalate	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
Fluoranthene	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10 avl	
Pyrene	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
<b>Butyl benzyl phthalate</b>	<b>130 mg/kg dry</b>	<b>20</b>	<b>200</b>	<b>01/29/10</b>	<b>kb</b>	<b>02/02/10 avl</b>	
Benzo (a) anthracene	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10 avl	
Chrysene	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10 avl	
3,3'-Dichlorobenzidine	<7.9 mg/kg dry	7.9	10	01/29/10	kb	02/02/10 avl	
<b>Bis(2-ethylhexyl)phthalate</b>	<b>1400 mg/kg dry</b>	<b>40</b>	<b>400</b>	<b>01/29/10</b>	<b>kb</b>	<b>02/03/10 avl</b>	
Di-n-octyl phthalate	<1.0 mg/kg dry	1.0	10	01/29/10	kb	02/02/10 avl	
Benzo (b) fluoranthene	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10 avl	
Benzo (k) fluoranthene	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10 avl	
Benzo (a) pyrene	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10 avl	
Indeno (1,2,3-cd) pyrene	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10 avl	
Dibenz (a,h) anthracene	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10 avl	
Benzo (g,h,i) perylene	<0.40 mg/kg dry	0.40	10	01/29/10	kb	02/02/10 avl	
<b>Surrogates:</b>							
2-Fluorophenol	*	%	38-81	10	01/29/10	kb	02/02/10 avl
							302

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## ANALYTICAL RESULTS

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

Trace ID:	T10A215-01	Date Collected:	01/26/10 15:30	Matrix:	Soil
Sample ID:	WPS-19HS1-10-1	Date Received:	01/27/10 10:28		

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED BY	ANALYZED BY	NOTES	MCL
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### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Phenol-d5	*	%	32-102	10	01/29/10	kb	02/02/10	avl	302
Nitrobenzene-d5	*	%	36-98	10	01/29/10	kb	02/02/10	avl	302
2-Fluorobiphenyl	*	%	44-105	10	01/29/10	kb	02/02/10	avl	302
2,4,6-Tribromophenol	*	%	38-101	10	01/29/10	kb	02/02/10	avl	302
Terphenyl-d14	*	%	46-109	10	01/29/10	kb	02/02/10	avl	302

### SEMI-VOLATILE ORGANIC COMPOUNDS, TCLP

Analysis Method: EPA 8270C

Batch: T014600

Pyridine	<0.40 mg/L	0.40	2	01/28/10	kb	01/29/10	avl	5.0
2-Methylphenol (o-Cresol)	<0.050 mg/L	0.050	2	01/28/10	kb	01/29/10	avl	200
3,4-Methylphenol (m,p Cresol)	<0.050 mg/L	0.050	2	01/28/10	kb	01/29/10	avl	200
Hexachloroethane	<0.050 mg/L	0.050	2	01/28/10	kb	01/29/10	avl	3.0
Nitrobenzene	<0.020 mg/L	0.020	2	01/28/10	kb	01/29/10	avl	2.0
Hexachlorobutadiene	<0.050 mg/L	0.050	2	01/28/10	kb	01/29/10	avl	0.50
2,4,6-Trichlorophenol	<0.020 mg/L	0.020	2	01/28/10	kb	01/29/10	avl	2.0
2,4,5-Trichlorophenol	<0.050 mg/L	0.050	2	01/28/10	kb	01/29/10	avl	400
2,4-Dinitrotoluene	<0.050 mg/L	0.050	2	01/28/10	kb	01/29/10	avl	0.13
Hexachlorobenzene	<0.050 mg/L	0.050	2	01/28/10	kb	01/29/10	avl	0.13
Pentachlorophenol	<0.10 mg/L	0.10	2	01/28/10	kb	01/29/10	avl	100

**Surrogates:**

2-Fluorophenol	29 %	20-53	2	01/28/10	kb	01/29/10	avl
Phenol-d5	16 %	11-40	2	01/28/10	kb	01/29/10	avl
Nitrobenzene-d5	46 %	36-103	2	01/28/10	kb	01/29/10	avl
2-Fluorobiphenyl	41 %	36-119	2	01/28/10	kb	01/29/10	avl
2,4,6-Tribromophenol	42 %	30-105	2	01/28/10	kb	01/29/10	avl
Terphenyl-d14	51 %	37-109	2	01/28/10	kb	01/29/10	avl

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## ANALYTICAL RESULTS

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

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Trace ID:	T10A215-01	Date Collected:	01/26/10 15:30	Matrix:	Soil
Sample ID:	WPS-19HS1-10-1	Date Received:	01/27/10 10:28		

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED BY	ANALYZED BY	NOTES	MCL
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### PESTICIDES/PCBS

Analysis Method: EPA 8082

Batch: T014603

Aroclor-1016	<0.097 mg/kg dry	0.097	1	01/28/10	kb	01/29/10	tim
Aroclor-1221	<0.097 mg/kg dry	0.097	1	01/28/10	kb	01/29/10	tim
Aroclor-1232	<0.097 mg/kg dry	0.097	1	01/28/10	kb	01/29/10	tim
Aroclor-1242	<0.097 mg/kg dry	0.097	1	01/28/10	kb	01/29/10	tim
Aroclor-1248	<0.097 mg/kg dry	0.097	1	01/28/10	kb	01/29/10	tim
<b>Aroclor-1254</b>	<b>2.1 mg/kg dry</b>	<b>0.97</b>	<b>10</b>	<b>01/28/10</b>	<b>kb</b>	<b>02/01/10</b>	<b>tim</b>
Aroclor-1260	<0.097 mg/kg dry	0.097	1	01/28/10	kb	01/29/10	tim
<b>Surrogates:</b>							
Tetrachloro-m-xylene	* 33 %	40-113	1	01/28/10	kb	01/29/10	tim
Decachlorobiphenyl	47 %	32-111	1	01/28/10	kb	01/29/10	N

### METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T014602

Barium	230 mg/kg dry	3.9	1	01/28/10	jd	02/01/10	jlm
Cadmium	680 mg/kg dry	0.78	1	01/28/10	jd	02/01/10	jlm
Chromium	14 mg/kg dry	3.9	1	01/28/10	jd	02/01/10	jlm
Lead	74 mg/kg dry	3.9	1	01/28/10	jd	02/01/10	jlm

Analysis Method: EPA 6020

Batch: T014602

Arsenic	2.0 mg/kg dry	0.39	10	01/28/10	jd	02/01/10	jn
Selenium	23 mg/kg dry	0.78	10	01/28/10	jd	02/01/10	jn
Silver	<0.39 mg/kg dry	0.39	10	01/29/10	jd	02/01/10	jn

Analysis Method: EPA 7471A

Batch: T014602

Mercury	0.26 mg/kg dry	0.12	1	01/28/10	jd	02/01/10	jlm
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## ANALYTICAL RESULTS

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

Trace ID:	T10A215-01	Date Collected:	01/26/10 15:30	Matrix:	Soil
Sample ID:	WPS-19HS1-10-1	Date Received:	01/27/10 10:28		

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED BY	ANALYZED BY	NOTES	MCL
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### METALS, TCLP

Analysis Method: EPA 6010B

Batch: T014596

Arsenic	<0.30 mg/L	0.30	1	01/28/10	jd	02/01/10	jlm	5.0
Barium	<1.0 mg/L	1.0	1	01/28/10	jd	02/01/10	jlm	100
Cadmium	0.83 mg/L	0.10	1	01/28/10	jd	02/01/10	jlm	1.0
Chromium	<0.50 mg/L	0.50	1	01/28/10	jd	02/01/10	jlm	5.0
Lead	<0.50 mg/L	0.50	1	01/28/10	jd	02/01/10	jlm	5.0
Selenium	<0.60 mg/L	0.60	1	01/28/10	jd	02/01/10	jlm	1.0
Silver	<0.10 mg/L	0.10	1	01/28/10	jd	02/01/10	jlm	5.0

Analysis Method: EPA 7470A

Batch: T014617

Mercury	<0.010 mg/L	0.010	1	01/29/10	jd	02/01/10	jlm	0.20
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### WET CHEMISTRY

Analysis Method: % Calculation

Batch: T014606

% Solids	100 % by Wt.	0.10	1	01/28/10	sm	01/29/10	bd	N
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Analysis Method: EPA 1010

Batch: T014644

Flashpoint	190 °F	1.0	1	02/01/10	sm	02/01/10	sm
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Analysis Method: EPA 9040C

Batch: T014612

Corrosivity-pH	6.07 pH Units		1	01/28/10	sm	01/28/10	sm	N
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Analysis Method: EPA Chapter 7.3

Batch: T014618

Cyanide, Reactive	<0.50 mg/kg dry	0.50	1	01/29/10	da	02/01/10	bd
Sulfide, Reactive	<5.1 mg/kg dry	5.1	1	01/29/10	da	02/01/10	bd

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## QUALITY CONTROL RESULTS

Trace Project ID: T10A215  
 Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014592	Analysis Description: TCLP Extraction, SVOC
QC Batch Method: Leaching procedures	Analysis Method: EPA 1311

Trace Project ID: T10A215  
 Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014596	Analysis Description: Cadmium, TCLP
QC Batch Method: EPA 3015 Microwave Assisted	Analysis Method: EPA 6010B

### METHOD BLANK: T014596-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.10	0.10	
Arsenic	mg/L	<0.30	0.30	
Barium	mg/L	<1.0	1.0	
Cadmium	mg/L	<0.10	0.10	
Chromium	mg/L	<0.50	0.50	
Lead	mg/L	<0.50	0.50	
Selenium	mg/L	<0.60	0.60	

### METHOD BLANK: T014596-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.10	0.10	
Arsenic	mg/L	<0.30	0.30	
Barium	mg/L	<1.0	1.0	
Cadmium	mg/L	<0.10	0.10	
Chromium	mg/L	<0.50	0.50	
Lead	mg/L	<0.50	0.50	
Selenium	mg/L	<0.60	0.60	

### LABORATORY CONTROL SAMPLE: T014596-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.0278	<0.10	87	80-120	
Arsenic	mg/L	0.0556	<0.30	94	80-120	
Barium	mg/L	0.889	<1.0	101	80-120	
Cadmium	mg/L	0.0278	<0.10	96	80-120	
Chromium	mg/L	0.0278	<0.50	100	80-120	
Lead	mg/L	0.0556	<0.50	102	80-120	
Selenium	mg/L	0.0556	<0.60	93	80-120	

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**MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T014596-MSD1      Original: T10A215-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Silver	mg/L	0	0.250	0.221	0.222	88	89	75-125	0.6	20	
Arsenic	mg/L	0	0.500	0.479	0.480	96	96	75-125	0.1	20	
Barium	mg/L	0.218	8.00	8.02	8.05	97	98	75-125	0.4	20	
Cadmium	mg/L	0.832	0.250	1.07	1.10	94	105	75-125	12	20	
Chromium	mg/L	0	0.250	0.246	<0.50	98	101	75-125	3	20	
Lead	mg/L	0.168	0.500	0.630	0.653	92	97	75-125	5	20	
Selenium	mg/L	0	0.500	0.410	<0.60	82	98	75-125	17	20	

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014602

QC Batch Method: EPA 3051 Microwave Assisted

Analysis Description: Lead, Total

Analysis Method: EPA 6010B

**METHOD BLANK: T014602-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Barium	mg/kg dry	<1.0	1.0	
Cadmium	mg/kg dry	<0.20	0.20	
Chromium	mg/kg dry	<2.0	2.0	
Lead	mg/kg dry	<1.0	1.0	

**LABORATORY CONTROL SAMPLE: T014602-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Barium	mg/kg dry	40.0	36.3	91	80-120	
Cadmium	mg/kg dry	40.0	38.1	95	80-120	
Chromium	mg/kg dry	40.0	38.1	95	80-120	
Lead	mg/kg dry	40.0	37.6	94	80-120	

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014602

QC Batch Method: EPA 3051 Microwave Assisted

Analysis Description: Arsenic, Total

Analysis Method: EPA 6020

**METHOD BLANK: T014602-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Arsenic	mg/kg dry	<0.10	0.10	
Selenium	mg/kg dry	<0.20	0.20	

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### LABORATORY CONTROL SAMPLE: T014602-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Arsenic	mg/kg dry	5.00	4.68	94	80-120	
Selenium	mg/kg dry	5.00	4.41	88	80-120	

Trace Project ID: T10A215  
Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014626	Analysis Description: Silver, Total
QC Batch Method: EPA 3051 Microwave Assisted Digestion	Analysis Method: EPA 6020

### METHOD BLANK: T014626-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/kg dry	<0.10	0.10	

### LABORATORY CONTROL SAMPLE: T014626-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/kg dry	5.00	4.94	99	80-120	

### MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T014626-MSD1      Original: T10A215-01

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Silver	mg/kg dry	0.0894	19.8	18.9	97	100	75-125	2	20	

Trace Project ID: T10A215  
Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014617	Analysis Description: Mercury, TCLP
QC Batch Method: EPA 7470A Prep	Analysis Method: EPA 7470A

### METHOD BLANK: T014617-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	mg/L	<0.010	0.010	

### METHOD BLANK: T014617-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	mg/L	<0.010	0.010	

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**LABORATORY CONTROL SAMPLE: T014617-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	mg/L	0.00200	<0.010	99	80-120	

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T014617-MSD1      Original: T10A215-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	mg/L	0.000725	0.0500	0.0510	0.0500	101	99	75-125	2	20	

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014602	Analysis Description: Mercury, Total, EPA 7470/7471
QC Batch Method: EPA 3051 Microwave Assisted	Analysis Method: EPA 7471A

**METHOD BLANK: T014602-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	mg/kg dry	<0.050	0.050	

**LABORATORY CONTROL SAMPLE: T014602-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	mg/kg dry	0.200	0.180	90	77-122	

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014591	Analysis Description: TCLP Extraction, Metals
QC Batch Method: Leaching proceedures	Analysis Method: EPA 1311

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014593	Analysis Description: TCLP ZHE, Volatiles
QC Batch Method: Leaching proceedures	Analysis Method: EPA 1311

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014603	Analysis Description: PCBs
QC Batch Method: EPA 3540C Soxhlet Extraction	Analysis Method: EPA 8082

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## METHOD BLANK: T014603-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Aroclor-1016	mg/kg wet	<0.33	0.33	
Aroclor-1221	mg/kg wet	<0.33	0.33	
Aroclor-1232	mg/kg wet	<0.33	0.33	
Aroclor-1242	mg/kg wet	<0.33	0.33	
Aroclor-1248	mg/kg wet	<0.33	0.33	
Aroclor-1254	mg/kg wet	<0.33	0.33	
Aroclor-1260	mg/kg wet	<0.33	0.33	
Tetrachloro-m-xylene (S)	%	54	40-113	
Decachlorobiphenyl (S)	%	50	32-111	

## LABORATORY CONTROL SAMPLE: T014603-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Aroclor-1016	mg/kg wet	0.665	0.352	53	51-110	
Aroclor-1260	mg/kg wet	0.665	0.378	57	49-110	
Tetrachloro-m-xylene (S)	%	0.0333	0.0222	67	40-113	
Decachlorobiphenyl (S)	%	0.0333	0.0208	62	32-111	

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014600	Analysis Description: TCLP Semi-Volatiles
QC Batch Method: EPA 3510C Separatory Funnel	Analysis Method: EPA 8270C

## METHOD BLANK: T014600-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Pyridine	mg/L	<0.020	0.020	
2-Methylphenol (o-Cresol)	mg/L	<0.0025	0.0025	
3,4-Methylphenol (m,p Cresol)	mg/L	<0.0025	0.0025	
Hexachloroethane	mg/L	<0.0025	0.0025	
Nitrobenzene	mg/L	<0.0010	0.0010	
Hexachlorobutadiene	mg/L	<0.0025	0.0025	
2,4,6-Trichlorophenol	mg/L	<0.0010	0.0010	
2,4,5-Trichlorophenol	mg/L	<0.0025	0.0025	
2,4-Dinitrotoluene	mg/L	<0.0025	0.0025	
Hexachlorobenzene	mg/L	<0.0025	0.0025	
Pentachlorophenol	mg/L	<0.0050	0.0050	
2-Fluorophenol (S)	%	42	20-53	
Phenol-d5 (S)	%	24	11-40	
Nitrobenzene-d5 (S)	%	79	36-103	
2-Fluorobiphenyl (S)	%	65	36-119	
2,4,6-Tribromophenol (S)	%	81	30-105	
Terphenyl-d14 (S)	%	81	37-109	

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**LABORATORY CONTROL SAMPLE: T014600-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
2,4-Dinitrotoluene	mg/L	0.0510	0.0358	70	39-105	
Pentachlorophenol	mg/L	0.103	0.0739	72	38-102	
2-Fluorophenol (S)	%	0.100	0.0448	45	20-53	
Phenol-d5 (S)	%	0.100	0.0263	26	11-40	
Nitrobenzene-d5 (S)	%	0.100	0.0807	81	36-103	
2-Fluorobiphenyl (S)	%	0.100	0.0690	69	36-119	
2,4,6-Tribromophenol (S)	%	0.100	0.0825	83	30-105	
Terphenyl-d14 (S)	%	0.100	0.0840	84	37-109	

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014620	Analysis Description: Semi-volatiles, TCL list
QC Batch Method: EPA 3550B Ultrasonic Extraction	Analysis Method: EPA 8270C

**METHOD BLANK: T014620-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-chloroethyl)ether	mg/kg wet	<0.10	0.10	
2-Chlorophenol	mg/kg wet	<0.33	0.33	
Phenol	mg/kg wet	<0.33	0.33	
1,3-Dichlorobenzene	mg/kg wet	<0.33	0.33	
1,4-Dichlorobenzene	mg/kg wet	<0.33	0.33	
1,2-Dichlorobenzene	mg/kg wet	<0.33	0.33	
Benzyl alcohol	mg/kg wet	<3.3	3.3	
Bis(2-chloroisopropyl)ether	mg/kg wet	<0.33	0.33	
2-Methylphenol (o-Cresol)	mg/kg wet	<0.33	0.33	
3,4-Methylphenol (m,p Cresol)	mg/kg wet	<0.33	0.33	
N-Nitrosodi-n-propylamine	mg/kg wet	<0.33	0.33	
Hexachloroethane	mg/kg wet	<0.30	0.30	
Nitrobenzene	mg/kg wet	<0.33	0.33	
Isophorone	mg/kg wet	<0.33	0.33	
2-Nitrophenol	mg/kg wet	<0.33	0.33	
2,4-Dimethylphenol	mg/kg wet	<0.33	0.33	
Bis(2-chloroethoxy)methane	mg/kg wet	<0.33	0.33	
Benzoic acid	mg/kg wet	<3.3	3.3	
1,2,4-Trichlorobenzene	mg/kg wet	<0.33	0.33	
2,4-Dichlorophenol	mg/kg wet	<0.33	0.33	
Naphthalene	mg/kg wet	<0.33	0.33	
4-Chloroaniline	mg/kg wet	<0.33	0.33	
Hexachlorobutadiene	mg/kg wet	<0.050	0.050	
4-Chloro-3-methylphenol	mg/kg wet	<0.28	0.28	
2-Methylnaphthalene	mg/kg wet	<0.33	0.33	
Hexachlorocyclopentadiene	mg/kg wet	<0.33	0.33	

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## METHOD BLANK: T014620-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
2,4,6-Trichlorophenol	mg/kg wet	<0.33	0.33	
2,4,5-Trichlorophenol	mg/kg wet	<0.33	0.33	
2-Chloronaphthalene	mg/kg wet	<0.33	0.33	
2-Nitroaniline	mg/kg wet	<0.83	0.83	
Dimethyl phthalate	mg/kg wet	<0.33	0.33	
Acenaphthylene	mg/kg wet	<0.33	0.33	
2,6-Dinitrotoluene	mg/kg wet	<0.33	0.33	
3-Nitroaniline	mg/kg wet	<0.83	0.83	
Acenaphthene	mg/kg wet	<0.33	0.33	
Dibenzofuran	mg/kg wet	<0.33	0.33	
2,4-Dinitrotoluene	mg/kg wet	<0.33	0.33	
4-Nitrophenol	mg/kg wet	<0.83	0.83	
2,4-Dinitrophenol	mg/kg wet	<0.83	0.83	
Diethyl phthalate	mg/kg wet	<0.33	0.33	
Fluorene	mg/kg wet	<0.33	0.33	
4-Chlorophenyl phenyl ether	mg/kg wet	<0.33	0.33	
4-Nitroaniline	mg/kg wet	<0.83	0.83	
4,6-Dinitro-2-methylphenol	mg/kg wet	<0.83	0.83	
N-Nitrosodiphenylamine	mg/kg wet	<0.33	0.33	
4-Bromophenyl phenyl ether	mg/kg wet	<0.33	0.33	
Hexachlorobenzene	mg/kg wet	<0.33	0.33	
Pentachlorophenol	mg/kg wet	<0.80	0.80	
Phenanthrene	mg/kg wet	<0.33	0.33	
Anthracene	mg/kg wet	<0.33	0.33	
Carbazole	mg/kg wet	<0.33	0.33	
Di-n-butyl phthalate	mg/kg wet	<0.33	0.33	
Fluoranthene	mg/kg wet	<0.33	0.33	
Pyrene	mg/kg wet	<0.33	0.33	
Butyl benzyl phthalate	mg/kg wet	<0.33	0.33	
Benzo (a) anthracene	mg/kg wet	<0.33	0.33	
Chrysene	mg/kg wet	<0.33	0.33	
3,3'-Dichlorobenzidine	mg/kg wet	<2.0	2.0	
Bis(2-ethylhexyl)phthalate	mg/kg wet	<0.33	0.33	
Di-n-octyl phthalate	mg/kg wet	<0.33	0.33	
Benzo (b) fluoranthene	mg/kg wet	<0.33	0.33	
Benzo (k) fluoranthene	mg/kg wet	<0.33	0.33	
Benzo (a) pyrene	mg/kg wet	<0.33	0.33	
Indeno (1,2,3-cd) pyrene	mg/kg wet	<0.33	0.33	
Dibenzo (a,h) anthracene	mg/kg wet	<0.33	0.33	
Benzo (g,h,i) perylene	mg/kg wet	<0.33	0.33	
2-Fluorophenol (S)	%	55	38-81	
Phenol-d5 (S)	%	58	32-102	
Nitrobenzene-d5 (S)	%	60	36-98	
2-Fluorobiphenyl (S)	%	57	44-105	
2,4,6-Tribromophenol (S)	%	58	38-101	

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**METHOD BLANK: T014620-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Terphenyl-d14 (S)	%	64	46-109	

**LABORATORY CONTROL SAMPLE: T014620-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
2-Chlorophenol	mg/kg wet	3.39	2.15	64	49-93	
Phenol	mg/kg wet	3.32	1.85	56	40-90	
1,4-Dichlorobenzene	mg/kg wet	1.74	1.11	63	37-106	
N-Nitrosodi-n-propylamine	mg/kg wet	1.49	1.07	72	51-106	
1,2,4-Trichlorobenzene	mg/kg wet	1.81	1.21	67	49-100	
4-Chloro-3-methylphenol	mg/kg wet	3.46	2.45	71	50-96	
Acenaphthene	mg/kg wet	1.74	1.14	65	52-105	
2,4-Dinitrotoluene	mg/kg wet	1.69	1.13	67	51-108	
4-Nitrophenol	mg/kg wet	3.32	2.00	60	22-112	
Pentachlorophenol	mg/kg wet	3.42	2.44	71	30-111	
Pyrene	mg/kg wet	1.75	1.32	76	47-114	
2-Fluorophenol (S)	%	3.32	2.08	63	38-81	
Phenol-d5 (S)	%	3.32	2.22	67	32-102	
Nitrobenzene-d5 (S)	%	3.32	2.19	66	36-98	
2-Fluorobiphenyl (S)	%	3.32	2.27	68	44-105	
2,4,6-Tribromophenol (S)	%	3.32	2.53	76	38-101	
Terphenyl-d14 (S)	%	3.32	2.84	86	46-109	

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014694	Analysis Description: Volatiles, Full MDEQ+ List
QC Batch Method: EPA 5035 Purge-and-Trap for Solids and	Analysis Method: EPA 8260B

**METHOD BLANK: T014694-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Dichlorodifluoromethane	mg/kg wet	<0.050	0.050	
Chloromethane	mg/kg wet	<0.050	0.050	
Vinyl chloride	mg/kg wet	<0.040	0.040	
Bromomethane	mg/kg wet	<0.050	0.050	
Chloroethane	mg/kg wet	<0.050	0.050	
Trichlorofluoromethane	mg/kg wet	<0.050	0.050	
Diethyl ether	mg/kg wet	<0.20	0.20	
Tert-butyl alcohol	mg/kg wet	<2.5	2.5	
1,1-Dichloroethene	mg/kg wet	<0.050	0.050	
Acetone	mg/kg wet	<0.75	0.75	

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**METHOD BLANK: T014694-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Iodomethane	mg/kg wet	<0.050	0.050	
Carbon disulfide	mg/kg wet	<0.25	0.25	
Methyl-tert-butyl ether	mg/kg wet	<0.25	0.25	
Methylene chloride	mg/kg wet	<0.10	0.10	
Acrylonitrile	mg/kg wet	<0.10	0.10	
trans-1,2-Dichloroethene	mg/kg wet	<0.050	0.050	
1,1-Dichloroethane	mg/kg wet	<0.050	0.050	
Diisopropyl Ether	mg/kg wet	<0.25	0.25	
2-Butanone	mg/kg wet	<0.75	0.75	
cis-1,2-Dichloroethene	mg/kg wet	<0.050	0.050	
t-Butyl Ethyl Ether	mg/kg wet	<0.25	0.25	
Bromochloromethane	mg/kg wet	<0.050	0.050	
Tetrahydrofuran	mg/kg wet	<1.0	1.0	
Chloroform	mg/kg wet	<0.050	0.050	
1,1,1-Trichloroethane	mg/kg wet	<0.050	0.050	
Carbon tetrachloride	mg/kg wet	<0.050	0.050	
Benzene	mg/kg wet	<0.050	0.050	
t-Amyl Methyl Ether	mg/kg wet	<0.25	0.25	
1,2-Dichloroethane	mg/kg wet	<0.050	0.050	
Cyclohexane	mg/kg wet	<0.25	0.25	
Trichloroethene	mg/kg wet	<0.050	0.050	
1,2-Dichloropropane	mg/kg wet	<0.050	0.050	
Dibromomethane	mg/kg wet	<0.050	0.050	
Bromodichloromethane	mg/kg wet	<0.050	0.050	
cis-1,3-Dichloropropene	mg/kg wet	<0.050	0.050	
4-Methyl-2-pentanone	mg/kg wet	<2.5	2.5	
Toluene	mg/kg wet	<0.050	0.050	
trans-1,3-Dichloropropene	mg/kg wet	<0.050	0.050	
1,1,2-Trichloroethane	mg/kg wet	<0.050	0.050	
Tetrachloroethene	mg/kg wet	<0.050	0.050	
2-Hexanone	mg/kg wet	<2.5	2.5	
Dibromochloromethane	mg/kg wet	<0.050	0.050	
1,2-Dibromoethane (EDB)	mg/kg wet	<0.050	0.050	
Chlorobenzene	mg/kg wet	<0.050	0.050	
1,1,1,2-Tetrachloroethane	mg/kg wet	<0.050	0.050	
Ethylbenzene	mg/kg wet	<0.050	0.050	
m,p-Xylene	mg/kg wet	<0.10	0.10	
o-Xylene	mg/kg wet	<0.050	0.050	
Xylenes, total	mg/kg wet	<0.15	0.15	
Styrene	mg/kg wet	<0.050	0.050	
Bromoform	mg/kg wet	<0.050	0.050	
Isopropylbenzene	mg/kg wet	<0.050	0.050	
1,1,2,2-Tetrachloroethane	mg/kg wet	<0.050	0.050	
1,2,3-Trichloropropane	mg/kg wet	<0.050	0.050	
trans-1,4-Dichloro-2-butene	mg/kg wet	<0.050	0.050	

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**METHOD BLANK: T014694-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Bromobenzene	mg/kg wet	<0.050	0.050	
n-Propylbenzene	mg/kg wet	<0.050	0.050	
1,3,5-Trimethylbenzene	mg/kg wet	<0.050	0.050	
t-Butyl Benzene	mg/kg wet	<0.050	0.050	
1,2,4-Trimethylbenzene	mg/kg wet	<0.050	0.050	
sec-Butylbenzene	mg/kg wet	<0.050	0.050	
p-Isopropyltoluene	mg/kg wet	<0.050	0.050	
1,3-Dichlorobenzene	mg/kg wet	<0.050	0.050	
1,4-Dichlorobenzene	mg/kg wet	<0.050	0.050	
n-Butylbenzene	mg/kg wet	<0.050	0.050	
1,2,3-Trimethylbenzene	mg/kg wet	<0.050	0.050	
1,2-Dichlorobenzene	mg/kg wet	<0.050	0.050	
1,2-Dibromo-3-chloropropane	mg/kg wet	<0.10	0.10	
Hexachloroethane	mg/kg wet	<0.050	0.050	
1,2,4-Trichlorobenzene	mg/kg wet	<0.050	0.050	
Naphthalene	mg/kg wet	<0.25	0.25	
1,2,3-Trichlorobenzene	mg/kg wet	<0.050	0.050	
2-Methylnaphthalene	mg/kg wet	<0.25	0.25	
1,2-Dichloroethane-d4 (S)	%	99	70-133	
Toluene-d8 (S)	%	105	76-125	
4-Bromofluorobenzene (S)	%	101	71-123	
1,2-Dichlorobenzene-d4 (S)	%	91	72-123	

**LABORATORY CONTROL SAMPLE: T014694-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
1,1-Dichloroethene	mg/kg wet	1.00	0.926	93	64-156	
Benzene	mg/kg wet	1.00	0.952	95	80-120	
Trichloroethene	mg/kg wet	1.00	0.968	97	69-133	
Toluene	mg/kg wet	1.00	0.961	96	80-120	
Chlorobenzene	mg/kg wet	1.00	0.947	95	80-120	
1,2-Dichloroethane-d4 (S)	%	45.0	44.6	99	70-133	
Toluene-d8 (S)	%	45.0	47.1	105	76-125	
4-Bromofluorobenzene (S)	%	45.0	46.3	103	71-123	
1,2-Dichlorobenzene-d4 (S)	%	45.0	43.4	97	72-123	

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T014694-MSD1      Original: T10A215-01RE2**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
1,1-Dichloroethene	mg/kg dry	0	12700	13400	12600	105	99	60-146	6	15	
Benzene	mg/kg dry	5.15	12700	13300	12800	105	101	78-114	4	11	
Trichloroethene	mg/kg dry	23.1	12700	13700	13300	108	104	70-117	3	14	

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**MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T014694-MSD1**      Original: **T10A215-01RE2**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Toluene	mg/kg dry	41100	12700	62900	60000	172	149	77-118	14	10
Chlorobenzene	mg/kg dry	15.8	12700	13300	12800	105	101	75-116	4	12
1,2-Dichloroethane-d4 (S)	%		45.0	44.7	44.9	99	100	70-133		
Toluene-d8 (S)	%		45.0	47.2	46.6	105	104	76-125		
4-Bromofluorobenzene (S)	%		45.0	46.4	46.2	103	103	71-123		
1,2-Dichlorobenzene-d4 (S)	%		45.0	44.4	43.7	99	97	72-123		

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014717

Analysis Description: TCLP Volatiles

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Analysis Method: EPA 8260B

**METHOD BLANK: T014717-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Vinyl chloride	mg/L	<0.0010	0.0010	
1,1-Dichloroethene	mg/L	<0.0010	0.0010	
2-Butanone	mg/L	<0.0050	0.0050	
Chloroform	mg/L	<0.0010	0.0010	
Carbon tetrachloride	mg/L	<0.0010	0.0010	
Benzene	mg/L	<0.0010	0.0010	
1,2-Dichloroethane	mg/L	<0.0010	0.0010	
Trichloroethene	mg/L	<0.0010	0.0010	
Tetrachloroethene	mg/L	<0.0010	0.0010	
Chlorobenzene	mg/L	<0.0010	0.0010	
1,4-Dichlorobenzene	mg/L	<0.0010	0.0010	
1,2-Dichloroethane-d4 (S)	%	102	70-133	
Toluene-d8 (S)	%	105	76-125	
4-Bromofluorobenzene (S)	%	97	72-123	
1,2-Dichlorobenzene-d4 (S)	%	90	71-123	

**LABORATORY CONTROL SAMPLE: T014717-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Vinyl chloride	mg/L	0.0200	0.0187	94	47-184	
1,1-Dichloroethene	mg/L	0.0200	0.0187	93	64-156	
2-Butanone	mg/L	0.0200	0.0170	85	70-130	
Chloroform	mg/L	0.0200	0.0195	97	80-120	
Carbon tetrachloride	mg/L	0.0200	0.0181	90	79-141	
Benzene	mg/L	0.0200	0.0193	97	80-120	
1,2-Dichloroethane	mg/L	0.0200	0.0205	103	80-120	
Trichloroethene	mg/L	0.0200	0.0194	97	69-133	
Tetrachloroethene	mg/L	0.0200	0.0175	87	70-120	

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**LABORATORY CONTROL SAMPLE: T014717-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chlorobenzene	mg/L	0.0200	0.0181	91	80-120	
1,4-Dichlorobenzene	mg/L	0.0200	0.0180	90	80-120	
1,2-Dichloroethane-d4 (S)	%	45.0	45.8	102	70-133	
Toluene-d8 (S)	%	45.0	44.9	100	76-125	
4-Bromofluorobenzene (S)	%	45.0	44.7	99	72-123	
1,2-Dichlorobenzene-d4 (S)	%	45.0	42.8	95	71-123	

Trace Project ID: T10A215  
 Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014606	Analysis Description: Solids, Dry Weight
QC Batch Method: % Solids	Analysis Method: % Calculation

Trace Project ID: T10A215  
 Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014644	Analysis Description: Flash Point (Ignitability)
QC Batch Method: EPA 1010	Analysis Method: EPA 1010

**LABORATORY CONTROL SAMPLE: T014644-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
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**SAMPLE DUPLICATE: T014644-DUP1** Original: T10A215-01

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Flashpoint	°F	190	180	5	200	

Trace Project ID: T10A215  
 Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014612	Analysis Description: Corrosivity (pH for waste), 9040/9045
QC Batch Method: EPA 9040C	Analysis Method: EPA 9040C

**SAMPLE DUPLICATE: T014612-DUP1** Original: T10A215-01

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Corrosivity-pH	pH Units	6.07	6.17	2	200	

Trace Project ID: T10A215  
 Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014618	Analysis Description: Reactivity - Cyanide
QC Batch Method: EPA Chapter 7.3	Analysis Method: EPA Chapter 7.3

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**METHOD BLANK: T014618-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Cyanide, Reactive	mg/kg wet	<0.50	0.50	

**LABORATORY CONTROL SAMPLE: T014618-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Cyanide, Reactive	mg/kg wet	10.0	9.08	91	79-116	

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T014618-MSD1      Original: T10A215-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Cyanide, Reactive	mg/kg dry	0	10.1	9.29	10.2	92	101	64-129	9	14	

Trace Project ID: T10A215

Client Project ID: LEC MW19HS1 Remediation / 6527.40

QC Batch: T014619

Analysis Description: Reactivity - Sulfide

QC Batch Method: EPA Chapter 7.3

Analysis Method: EPA Chapter 7.3

**METHOD BLANK: T014619-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Sulfide, Reactive	mg/kg wet	<5.0	5.0	

**LABORATORY CONTROL SAMPLE: T014619-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Sulfide, Reactive	mg/kg wet	25.0	25.3	101	74-126	

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T014619-MSD1      Original: T10A215-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Sulfide, Reactive	mg/kg dry	1.94	25.3	4.25	51.6	9	197	52-115	182	27	229

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### CHAIN-OF-CUSTODY RECORD

2/1/10

Page 1 of 1

TRACE ID NO.  
T10A215

Request for Analytical Services		Bill To:		Report Results To:																																																																			
Please Sign		City, State, Zip Code	/Madison, WI	City, State, Zip Code	Mailing Address:																																																																		
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### SAMPLE LOG IN CHECKLIST

Date: <u>1-28-10</u>	Client Name: <u>BMT</u>	# of Coolers: <u>1</u>
Trace ID #: <u>T10A215</u>	Project Name: <u>DJ</u>	Cooler #: _____
Logged in by <u>DSmith</u>		Cooler #: _____
<b>Cooler Receipt</b>		
Cooler/samples delivered by: <input type="checkbox"/> Trace courier <input type="checkbox"/> Hand delivered <input type="checkbox"/> Name of delivery person: _____ <input type="checkbox"/> Commercial courier <input checked="" type="checkbox"/> UPS <input type="checkbox"/> DHL <input type="checkbox"/> FED EX <input checked="" type="checkbox"/> US Mail		
Did cooler come with a bill of lading? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Not Applicable <input checked="" type="checkbox"/> Way Bill or Tracking #: _____		
COC Seals present and intact on cooler? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Not Applicable Custody seals signed by Client? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Client custody seal # (if applicable): _____		
<b>Coolant and Temperature</b>		
Type of Coolant Used Yes <input type="checkbox"/> Slurry w/ crushed, cubed, or chip ice? <input type="checkbox"/> Multiple bags of ice around samples? <input checked="" type="checkbox"/> Ice Packs/ Blue Ice : <input type="checkbox"/> No Coolant Present: <input type="checkbox"/>		Cooler Temperature Correction Factor <u>-0.2 °C</u> Date: <u>1-28-10</u> Time: <u>10:28</u> Temperature Blank: <u> </u> °C Range of 3 samples: <u>5</u> °C Melt Water: <u> </u> °C Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>General</b>		
COC taped to inside of cooler lid? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA All bottles arrived unbroken with labels in good condition? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Each sample point is in a sealed plastic bag? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Labels filled out completely? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA All bottle labels agree with Chain of Custody (COC)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Sufficient sample to run tests requested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA pH checked and samples at correct pH? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Correct preservative added to samples? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA DRO/GRO samples received and appropriate check in form completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Air bubbles absent from VOAs? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA COC filled out properly and signed by client? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA COC signed in by TRACE sample custodian? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Was project manager called and samples discussed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Contact: _____		Date: _____
<b>Notes:</b> <hr/> <hr/> <hr/> <hr/> <hr/>		

### CERTIFICATE OF ANALYSIS

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2010/01/22



2010/01/19



2010/01/26



2010/01/26